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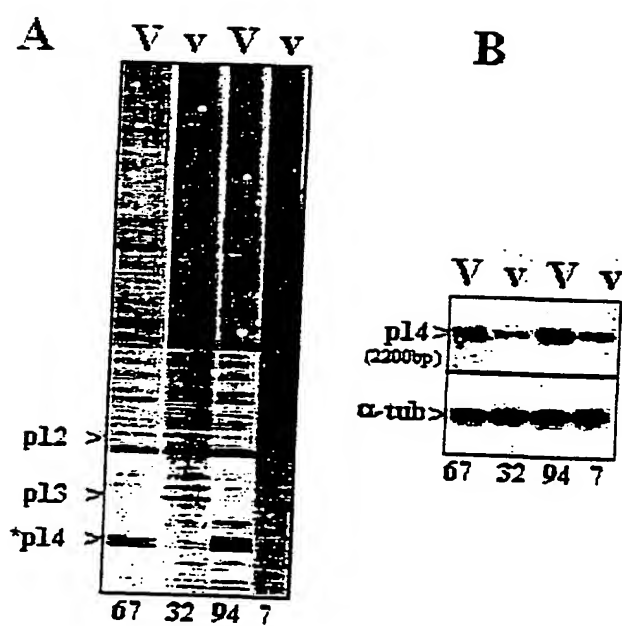


Figure 1

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L L F C V A S A E V Q V A T K D N F 30

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G H C K T L A A P E F V K A A D M L A 66

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G I A T L A E V D C T K E E S L A E 84

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K Y E I K G F P T L Y I F R N G E K 102

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V K I Y D G P R T A A G I A S Y M K 120

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CGC ACC GCA GAC GAA ATC CAG GTG TTT GTG AAG TCT CAC CTG ACC GCC TCC GCC 1626
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Figure 2

Figure 3 A

L. major 1 -----MORSEFLVFWICALFPCVSAEVO-----VAIKDNED
 T. brucei 1 -----MRRIETVALAHATMRESTAESLK-----ETKEN-SN
 H. jecorina 1 -----MOOKRITAAALVAALAAVVSASE-----VKSLTKDTEN
 C. elegans 1 -----MIWVOAALVASFLAPASAGGA-----VLEYHOGNEP
 C. reinhard 1 MNRWNLLALTLGLLEVAAPETKHQFAHASDEVEDDEEDAPAAPKDDDDVDVTVMVKNWV
 D. melano 1 -----MKPFLICALELAASYVAASAEAEVKVE-----GVLAIVVDNEK
 C. parvum 1 -----MIGIRSELVSAALGFSOLSKVVLGSEDAHFIS-----EHITSLTSSNFP
 H. sapiens 1 -----MIRRALCLAVAALVRADAFEEED-----HVLVERKSNFA

 L. major 32 KVVIG-DITLVKFYAPWCGCHCKTLAPEEVKAADMAGIAT---LAEVDCIKESLAEKVE
 T. brucei 31 ETIAKSEIFLVKEFYVDTGGYQOMLAPENKKAANETIDNALMG---EVDCHSOPELAANFS
 H. jecorina 34 DFINSNDITLAESEAPWCGCHCKALAPEYEEAATTIKDKS---IKLAKVDCVEEADLCKEHC
 C. elegans 32 DLIQTHDIALVKFYAPWCGCHCKTLAPEYERAAPKASNDPPVALVRVDCITEKTIVCKREG
 C. reinhard 61 ETVKKSKFALVEFYAPWCGCHCKTLAPEYAKAAQALKAAPDALBAKVDAFOESLAKQEG
 D. melano 39 QLIADNEFNLVEFYAPWCGCHCKALAPEYAKAAQALAEKESPIKLAKVDAFVEGELAEQVA
 C. parvum 45 DFUKSKHEVIVITFEAPWCGCHCKTALPEEKATCABSKLSPPVHCSSVDATENMELAQOYG
 H. sapiens 36 BAUAHKYILVEFYAPWCGCHCKALAPEYAKAAGKLAPESEIRLAKVDAFEESLAAQOYG

 L. major 88 LKGEPTLYIFRNCR--KVKIVDGPRTAAGIASVMAEVEPSMKALISTAGEEDLKKETFP
 T. brucei 88 LKGYPTLILFRNCK--EAEHNGEARTKDDTKVTHANVGPVTPASNAGEVTRAKEDEHV
 H. jecorina 92 VEGYPTILKVERGLD--KVAFYEGPRKADGITSNVVQOS-LPAVSALTKETEDFKTADKV
 C. elegans 92 VNGEPTLKIIFRNCR--VPACTYDGPADGIVKEMGQSGPSSKELKTVAEFEKFTGGDEN
 C. reinhard 121 VQGYPTLKWVFDG--ELASDYNGPRDADGIVGVKGETGPPAVTVEDAKLKSLEADAHV
 D. melano 99 VEGYPTILKFFERSG--SPVEVSGGQADILAAVTKGTGPPAKDLTSVADAEQFLKQNEH
 C. parvum 105 VSGYPTILKFFSSGID--SVQNYSCARSKOAFIKVTHILTCPAVOVAESSEAKTKTFASSSS
 H. sapiens 96 VRGYPTILKFFRNGLTASPKENTAGCEADDINNALKKRTGPAATTLPDGAASSESVESSEV

 L. major 146 VCVVKTASTISEMASMITKVAOSRISOMNFVLVTDAAISPNDAMESVT-----VYRKNAE
 T. brucei 146 VCVGLTANNSTISLSTLAEEAQSPFVSLKFFFEAPKLPFDEKPPETIVVYR-----KG
 H. jecorina 149 VIVVYLAADDKASNETITAFANBEIRITYLFGGVNDAAVAEAGVKFP---S-JVLYKNSFD
 C. elegans 150 VVIGEFSESCLKDSYLKVADTERDRFSFAHTSNKDTLKKAGYSDDVVVFVPKCHNKED
 C. reinhard 179 VVVGCFKALSGEIIYDREKSYNARTEDVWVVOVTSADAKAAGLDAVDTVSV-VKNFAGEO
 D. melano 156 ALGSGFKDLASEEAKETKVAANLDSFVFGVSSNADVIKYEAKDNG-----WLEHFPED
 C. parvum 163 AFVGRFETSKSAEYAVEKVASGHEHNYAFIAFQEGEQKLEVLHK-----D
 H. sapiens 156 AVRGHFKOVESDSAKOQLQANEADDIPEGITSNSSDMFSKYOLDKDG-----WLEKKED

 L. major 201 REAYTGATPYTABSVRSEITSAVLDYFGEIGOESEOKYMEANKDKPLGWVFDKN--TDS
 T. brucei 198 GENEWMGCPMEVEKLTETLOHSRVAFGGELTPENYQYYSVIKRP--VGWAMVKPNETASI
 H. jecorina 205 ECKNVESEKFDASAIRNEAQAATPEVGENGPETVAGYMSAETPLAYIFAETAES---RE
 C. elegans 210 TNEFKYICNYDTCKLKNELVHETVGFASIRTOGNLFOSEQKPIVIVYINVDYVEDPKGSN
 C. reinhard 238 RATAVLATDIDTDSLTAEVKSEKSEPTTIFNOKNSDKIFNSSINKOLHLWTTADDLKADA
 D. melano 211 DKKSVFECEENBENAKKBAQVQSPHIVDFNHESASRIFG-CSIASHLLFFVSEGGHIE
 C. parvum 211 BEPVSLPMPKTVEBEAKTSIMNVPFSATSAAKYSLSMS--RE--GYTPGSVVLTRTSP
 H. sapiens 211 EGRNNEFECEYTKENLLDEIKHNOHPVIEFTECTAPKIFG-SEIKTHILLFUPKSVSDYD

 L. major 259 ALKGSILVAABKYSOVLITYIDGCMR--PVSROLGHPDAKFPAPVVOFRRRI-EVMG
 T. brucei 256 BLKESLTVKQKRSWVLEWNLISKHP--VWRDEGVPEDAKYPAFLAIHWGAN-YLFS
 H. jecorina 262 NLAKILKPAEKYKGGKINEAIDAKNEG--SHAGNINLRTDKFPAFAIHDHKNLKFPFD
 C. elegans 270 YWRNRMLKVAQNYKRVQFAVSNKEEESSEIEINGLGERKOSDKPIVAILTNEGR---YP
 C. reinhard 298 EIMTVFREASKKAGOLMEVWVNNSEGDGADPVNFEGLKGATSPVLLGFFMEKNA-KFRM
 D. melano 270 KYVDPLEKELAKKYRDDILEVTHSSDEEDHTRFEFEFGNKEEVPTRMLKIBEDMAKYP
 C. parvum 267 SLMQTHERRLOLITEKSAPLFSIDTEQSG-SHATOHLLHEKFPGLVLOSVMPSIS-ymyg
 H. sapiens 270 GKLSNFTAAESENKGLIEFFIDSDHTDNORILEFFGLKKECPAVRLITHEEMTRYKP

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Figure 3 B

L. major 316 TDTPVTSSESVAAEVEKYVKSETKOTVMSDAIPAKETVNGHTTWGQTEAKYTDG-TONVM
T. brucei 312 TAENVVIRESELEK-TILEFAAGRVETTHKSLFYPEVETVDGKTTIVAKTMOKHITS-GKDM
H. jecorina 320 QSKETITEKOTIAA-FVDFSSSGKTEASTIKSEPIPETQ-EGPVTVAVVANSYKOIVLDDKKOVL
C. elegans 327 MDQEFSDNLTQQFVDEVLAGNAEPPYKSEPIPEDQ--GDVKVAVGRNEKELIMPADKQVL
C. reinhard 357 EG-EPTADNVAKFAESVVDGTAQAVLKSEAIPEDPYEDGVYKIVGKTVESVVIDETKQVL
D. melano 330 ESTDLSAETHIEATIKKFTLOGKIKOHLSDPEIPEDWDKNPVKVLVSSNFESVALDKSNVL
C. parvum 325 PAKEDSVEPLKEFMKQVSEGHKHELSIKSEPIPAEQ-SGPVTVVVGKTFEEIVFRSDKQVL
H. sapiens 330 ESEETIAERITETCHRILEGKIKPHLMSQELPEDWDKQPVKVLVGRNEFEDVAFCEKKNVF

L. major 375 ILEFYAPWCGHCKNLEPMYDKVAKSEES----ENVIKAGDATINDFDREKFEVSSEPTIY
T. brucei 371 ILEFYAPWCGHCKNFAPTEDKIAKESDAT----DLIVAEIDATANYVNSSTFTVTAFTV
H. jecorina 379 IEFYTPWCGHCKALAEKYDELASLYAKSDFKQVIAKVDATANDVP--DEIIOSEPTIK
C. elegans 385 IEFYAPWCGHCKSLAPKYDELAELKLNK----EDVIAKGDATANDVPPM-EEVVGFTTIL
C. reinhard 416 IEFYAPWCGHCKLEPIYKGLAKREK----VDSVIAKMDG-ENDEPE--IEVKGFTTIL
D. melano 390 IEFYAPWCGHCKLAPIYDOLAEKYKO----NEDIVIAKMDSTANLES--IKISSFTTIK
C. parvum 384 IEFYAPWCGHCKNLEPIYKGLAEKYKO----NDKVVIAKINGPCANDPEVEG-SPRAFPTIL
H. sapiens 390 IEFYAPWCGHCKLAPIINDKLGSETYKO----HENIVIAKMDSTANEVEA--VRVHSFTTIK

L. major 431 FIPA--GKPPIVVEG-GRFADEIQVENKSHLT-----ASAAPSGGPGSGNS
T. brucei 427 FVPN--GGKPVVEG-ERSFENVYEVKRVITTFKVSEKPANVTEKKSEBENKSSKSNE
H. jecorina 436 LYPAGDKRNPVMSG-ARTVEDFIBFINKENKYKAGVEIPAETEEABASESKASEBARA
C. elegans 440 WLPKNAKSNPIPYNG-GREVKDEVSFISKES-----T--DGLKGFSRQKQK
C. reinhard 471 FYPAGSDRTPIVEEGGRSLKSLTKETNAKIPYELP---KKGSDGEGTSDDDKKPAS
D. melano 445 YFRK-EDNKVIDENL-DRITLDEPVKFDANG-----EVADSEPVETETEESEAP
C. parvum 441 FVKA-GTETPIPYDG-KRIVEAPKEETISEHS-----SFQES-KE
H. sapiens 445 FFPASADRTVIDYNG-ERTLDGSKKPELESGGQDGAGDDDDLEDLEABEPDMEETDQKA

L. major 473 -----EEDIL
T. brucei 484 SNDSNESNVDRQDEL
H. jecorina 495 SEET-----EDEL
C. elegans 484 K-----KDEL
C. reinhard 528 D-----KDEL
D. melano 492 K-----KDEL
C. parvum 477 S-----EDEL
H. sapiens 504 V-----KDEL

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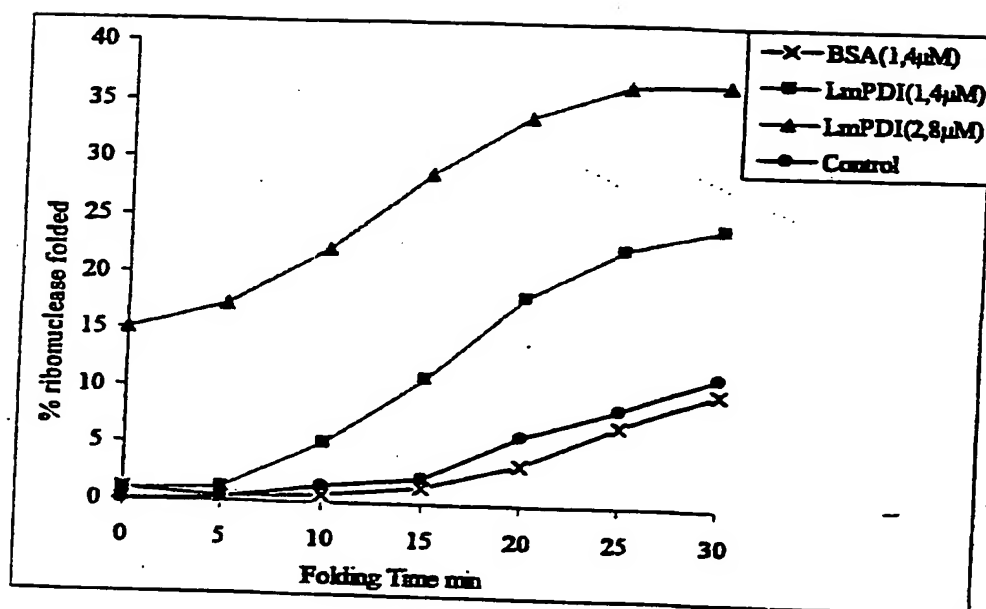


FIGURE 4

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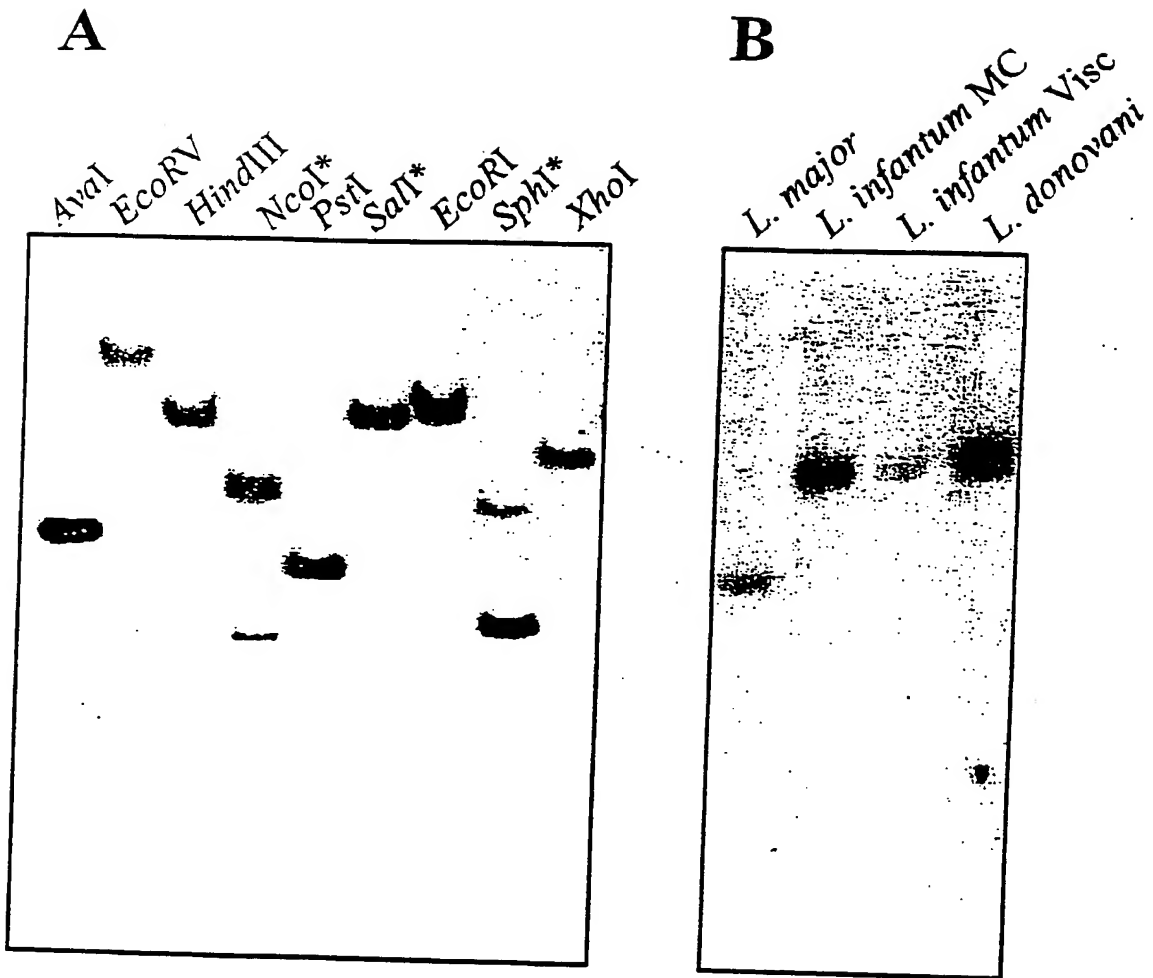


Figure 5

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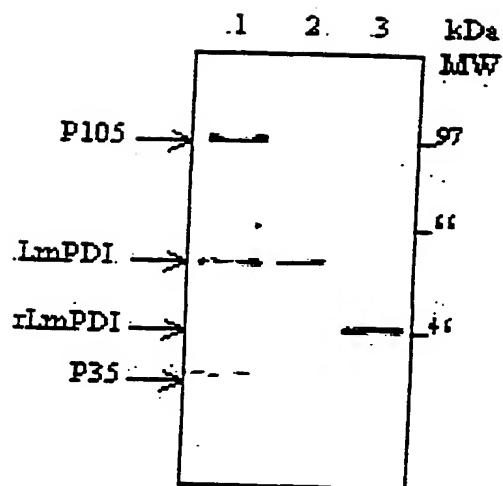


Figure 6

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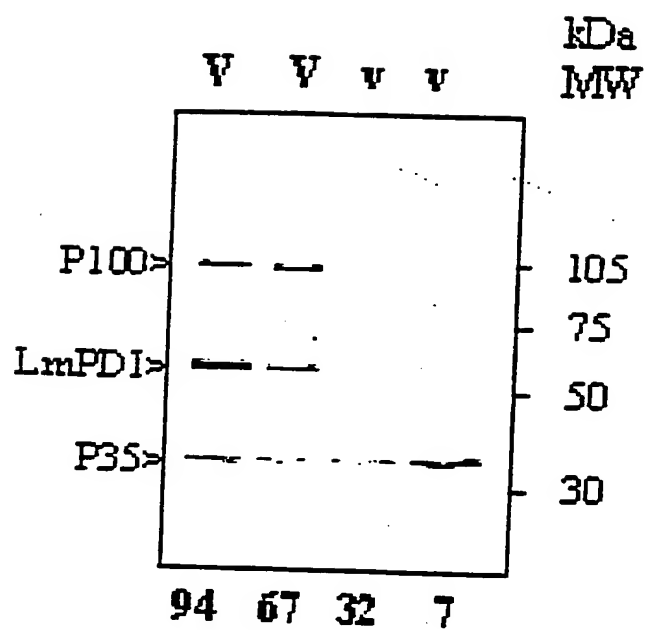


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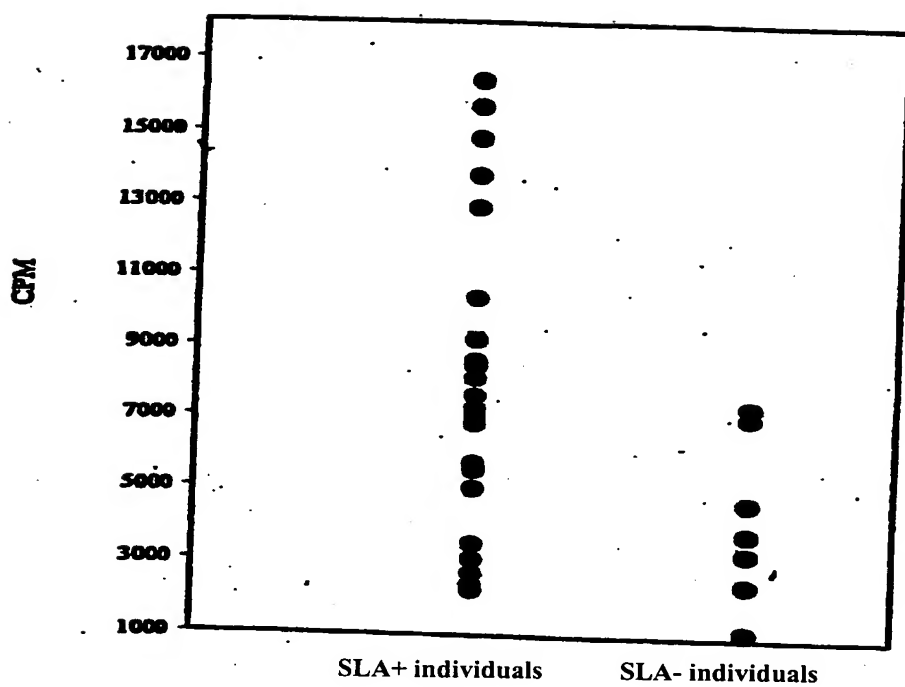


FIGURE 8

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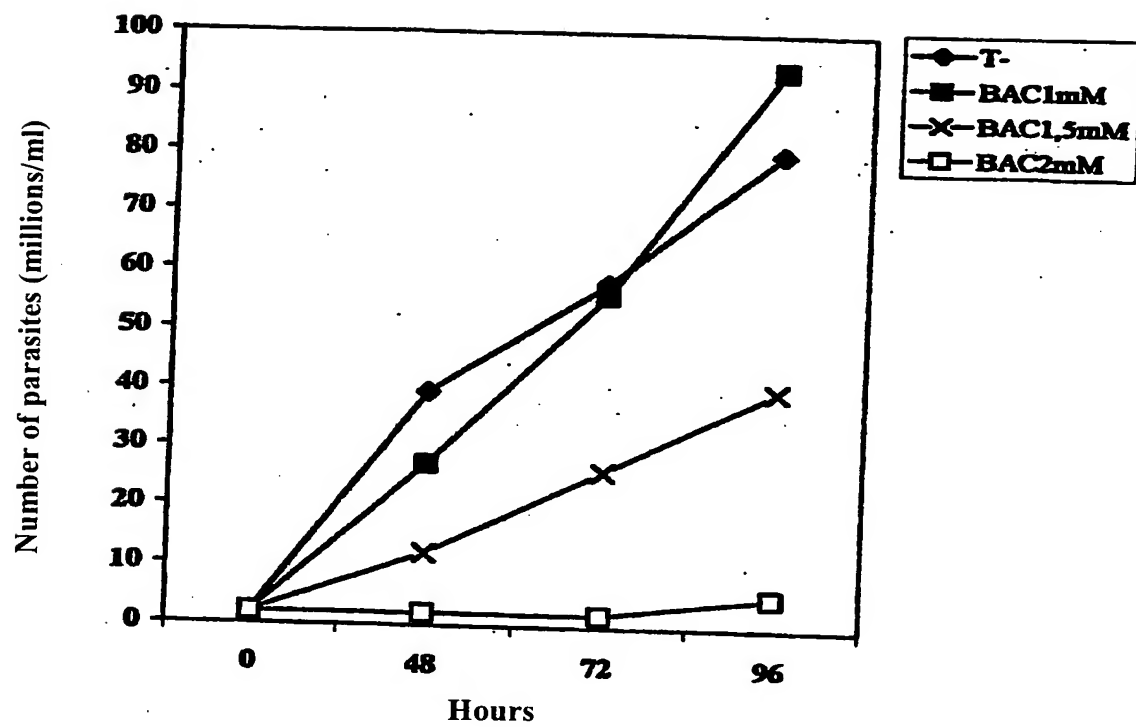


FIGURE 9

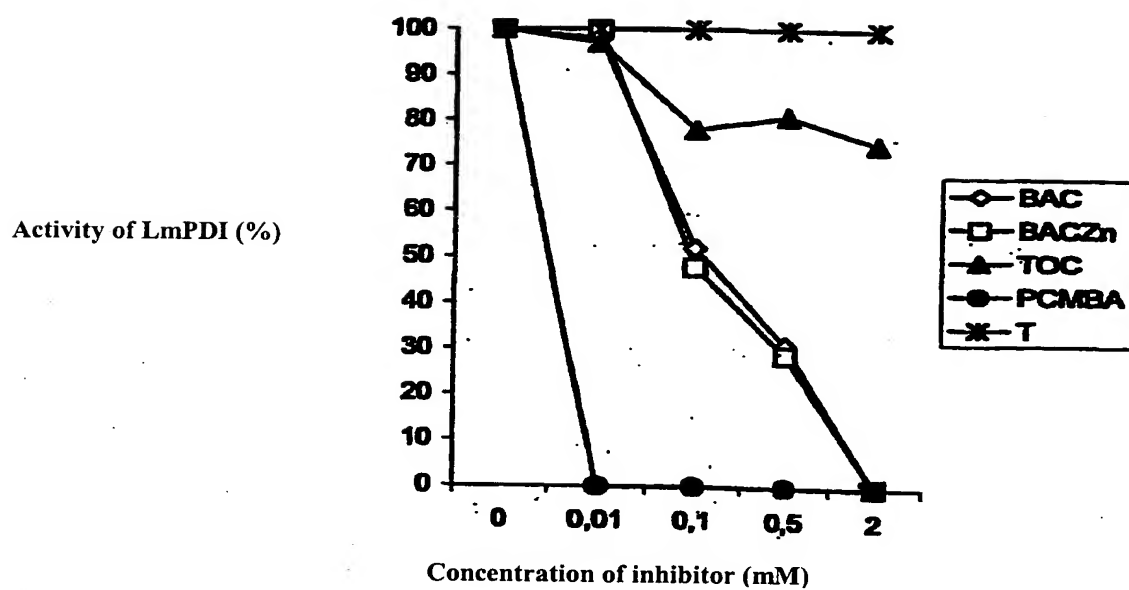


FIGURE 10

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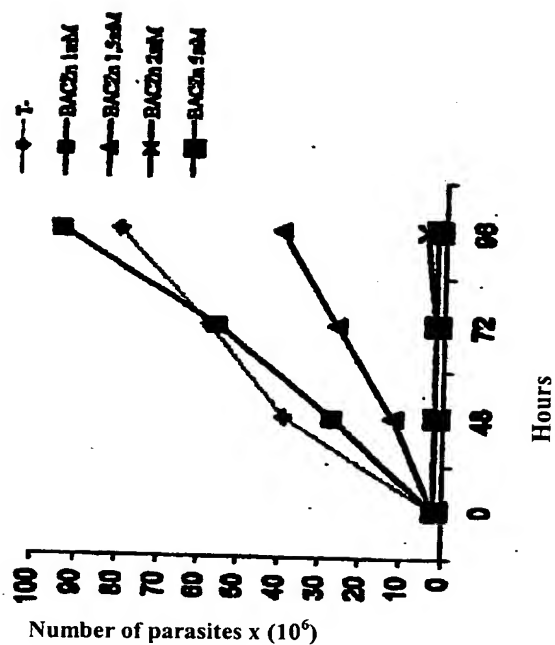


Figure 11 B

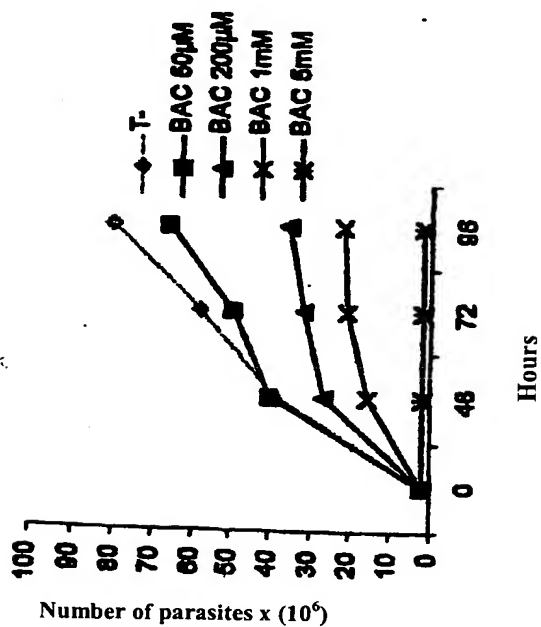


Figure 11 A

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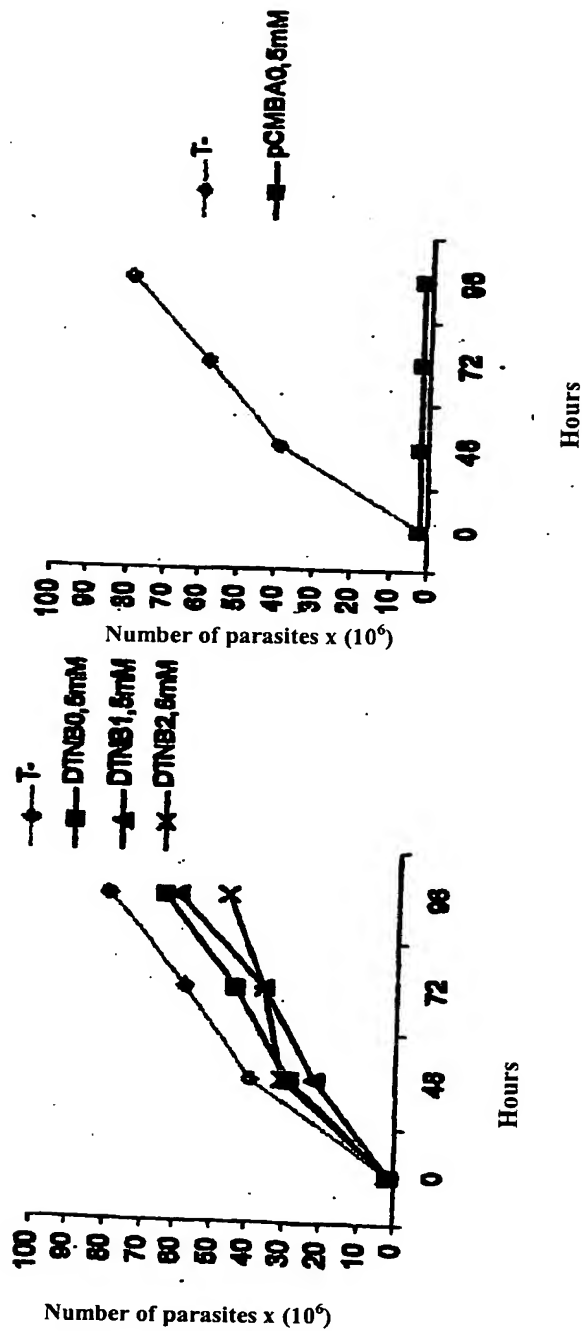


Figure 11 C

Figure 11 D

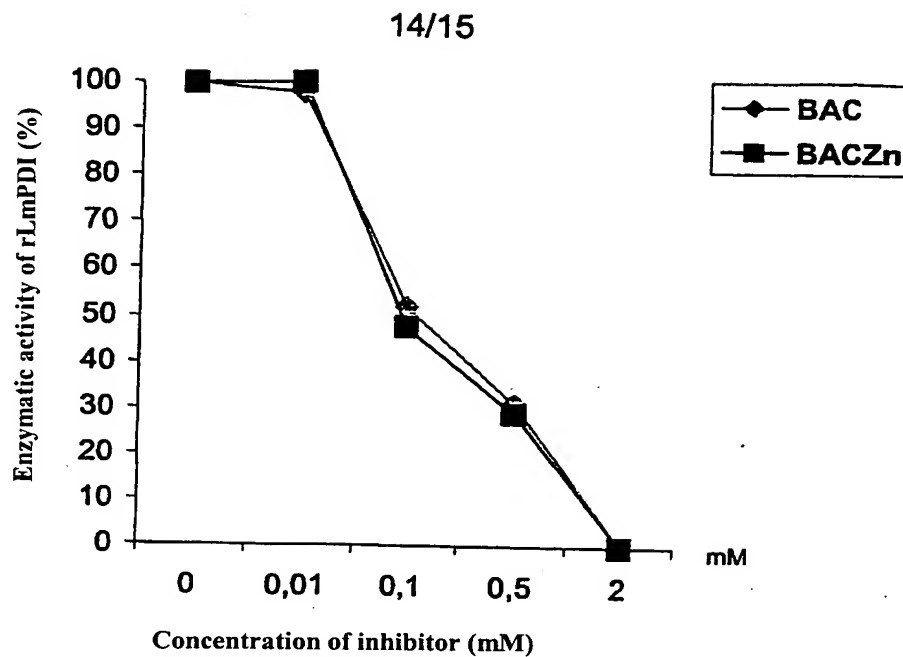


Figure 12

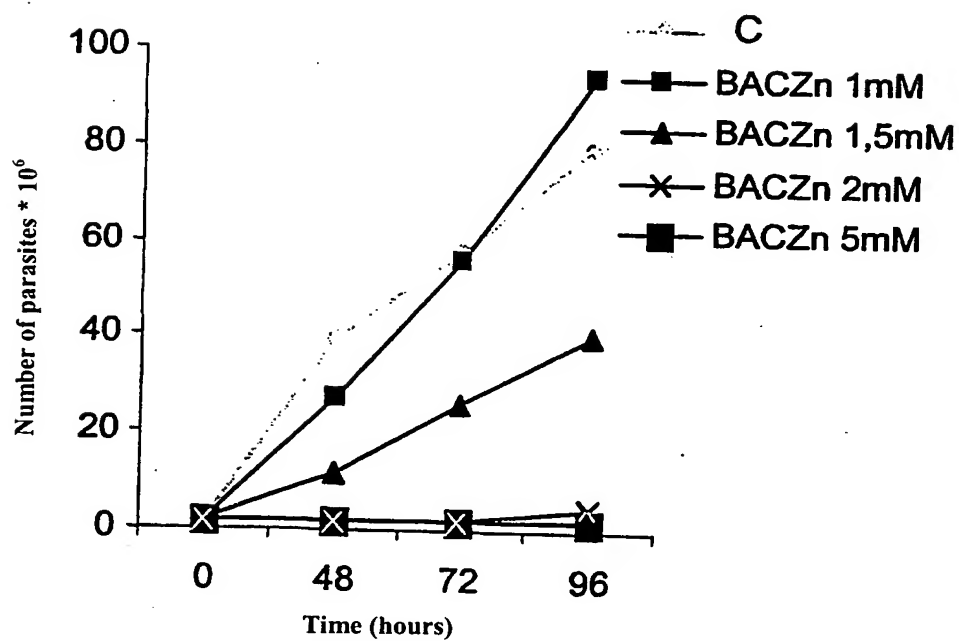


Figure 13

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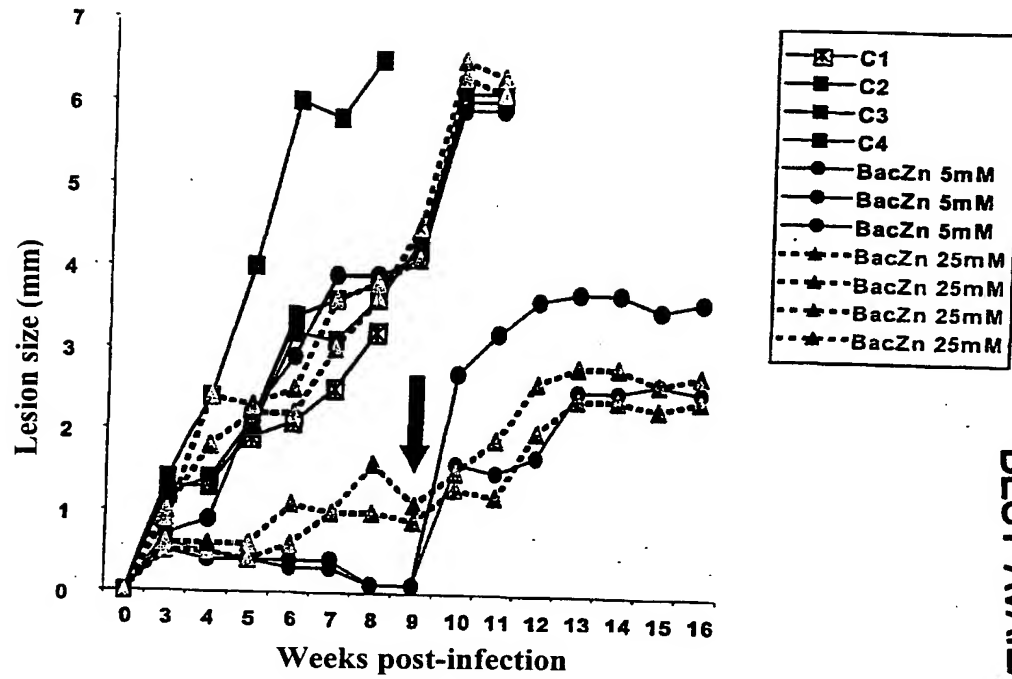


Figure 14

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